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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,065	08/20/2004	Chien-Fong Kuo	ACMP0145USA	5064
27765	7590 06/23/2005		EXAM	INER
NORTH AMERICA INTERNATIONAL PATENT OFFICE (NAIPC)			SOHN, SEUNG C	
	P.O. BOX 506 MERRIFIELD, VA 22116			PAPER NUMBER
			2878	
			DATE MAILED: 06/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Antiem Commence	10/711,065	KUO, CHIEN-FONG			
Office Action Summary	Examiner	Art Unit			
	Seung C. Sohn	2878			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period versillure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL. 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12 and 16</u> is/are rejected.					
7) Claim(s) <u>13-15 and 17-20</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been received in Aprity documents have been received.	pplication No received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		/Mail Date formal Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeuchi (Patent No. US 5,978,614).

Regarding claims 1, 8-9, 11 and 16, Takeuchi shows in Fig. 1 a light source (37, i.e., lamp) for generating a light to form an image; an image capturing apparatus (43, i.e., CCD) for capturing an image occupying a plurality of pixels of the image capturing apparatus; and an image processing apparatus for calculating a plurality of gray levels of the plurality of pixels, and calculating a characteristic parameter (brightness) of the light source according to the plurality of gray levels (Col. 1, lines 49-65 and Col. 4, lines 1-12).

Regarding claims 2 and 12, Takeuchi shows in Fig. 1 an image forming apparatus (42, i.e., condensing lens) installed between the light source (37) and the image capturing apparatus (42), and the image capturing apparatus captures the image resulted from the image forming apparatus.

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Regarding claim 3, Takeuchi shows in Fig. 1 that the image forming apparatus comprises a screen (lens) for the light to be projected on, and the image capturing apparatus captures the image by detecting the light penetrating the screen.

Regarding claim 4, Takeuchi shows in Fig. 1 the image forming apparatus further comprises an image forming lens for the light to be focused on the screen.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5-7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeuchi (Patent No. US 5,978,614).

Regarding claims 5-7 and 10, Takeuchi shows the claimed invention as above, but is silent that the device comprises a clamping device, an aperture, a shading plate and a filter. It is notoriously well known to the person ordinary skill in the art a clamping device, an aperture, a shading plate and a filter. It would have been obvious to one of ordinary skill in the art to provide a clamping device, an aperture, a shading plate and a filter to the device of Takeuchi for the purpose of fixing the lamp, focusing the light beam from the lamp, preventing other light and blocking unwanted wavelengths of light, respectively.

Allowable Subject Matter

- 5. Claims 13-15 and 17-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

Claim 13 is allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in addition to the other recited features of the claim, "defining the distance between the light source center c and the image center b as D2; calculating a center deviation D2/D1 to detect the uniformity of the light source".

Claim 14 is allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in addition to the other recited features of the claim, "detecting the brightness of the light source by a product V=h*Q2 of the gray level difference h and the area Q2".

Claim 15 is allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in addition to the other recited features of the claim, "defining a ratio of sides R1, a ratio of areas R2, and an image shape corresponding value S to detect uniformity of the light source as follows: R1=X/Y; R2=(Q3/(X*Y)); S=R1*R2".

Claims 17-20 are allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in

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addition to the other recited features of the claim, "evaluating brightness and uniformity of the light source by calculating a P value as follows: P=(1-D2/D1)*V'*S*I".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seung C. Sohn whose telephone number is (571) 272-2446. The examiner can normally be reached on Monday through Friday from 8:30 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Seung C. Sohn

Examiner

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